MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name **Bel-Ray MC-1 Racing Full Synthetic 2T Engine Oil**

Product code 99400

SDS Number 7032

Recommended use Engine oil

Version No. 3.0

Revision date 08-July-2014

Manufacturer

Bel-Ray Company, LLC
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2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Classification Carc. Cat. 2;R45, Xn;R20/22

Risk phrase(s) R45 May cause cancer.
R20/22 Also harmful by inhalation and if swallowed.

Safety phrase(s) S1/2 Keep locked up and out of the reach of children.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S53 Avoid exposure - obtain special instructions before use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Percent
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM)	64742-52-5	10 - < 30
1,2,4-Trimethyl benzene	95-63-6	< 10
Antimony, Tris(dipentylcarbamodithioato)	15890-25-2	< 10
Fuel Oil, No. 2	68476-30-2	< 10
Isodecyl Diphenyl Phosphite	26544-23-0	< 10
Kerosine (petroleum)	8008-20-6	< 10
Stoddard solvent	8052-41-3	< 10
Triphenyl Phosphite	101-02-0	< 10
Other components below reportable levels		> 60

4. FIRST-AID MEASURES

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Never give liquid to an unconscious person.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Notes to physician Oxygen, if needed. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire. Water.

Hazchem Code None

Hazardous combustion products Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling Avoid exposure - obtain special instructions before use. Avoid prolonged exposure. Hydrogen sulphide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning.

Storage Avoid exposure - obtain special instructions before use. Keep locked up. Room temperature - normal conditions. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0.5 mg/m3	
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Stoddard solvent (8052-41-3)	TWA	100 ppm	

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0.5 mg/m3	
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (64742-52-5)	TWA	5 mg/m3	Mist.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Stoddard solvent (8052-41-3)	TWA	790 mg/m3	

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection Avoid exposure - obtain special instructions before use. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection Avoid exposure - obtain special instructions before use.

Eye protection Avoid exposure - obtain special instructions before use.

Skin and body protection Avoid exposure - obtain special instructions before use.

General Applicable for industrial settings only: Use personal protective equipment as required. Keep working clothes separately.

Hygiene measures When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Oily. Liquid.
Oily. Liquid.

Physical state Liquid.

Form Liquid.
Liquid.

Colour Blue.
Blue.

Odour Petroleum
Petroleum

Odour threshold Not available.

pH Not available.

Vapour pressure 0.189943926 hPa estimated

Density 926.00 kg/m3

Vapour density Not available.

Boiling point 93 °C (199.4 °F) estimated

Melting point/freezing point -70 °C (-94 °F) estimated

Solubility (water) Not available.

Solubility (other) Not available.

Specific gravity 0.926

Flash point 98.00 °C (208.40 °F) Pensky-Martens Closed Cup

Flammability limits in air, upper, % by volume 50 % estimated

Flammability limits in air, lower, % by volume 0.9 % estimated

Auto-ignition temperature 215.56 °C (420 °F) estimated

VOC 3 %

Viscosity 244 cSt

Percent volatile 3 %

Other data

Flammability class Combustible IIIB estimated

Kinematic viscosity 244 cSt

Kinematic viscosity temp 40 °C (104 °F)

Viscosity temperature 40 °C (104 °F)

10. STABILITY AND REACTIVITY

Chemical stability Material is stable under normal conditions.

Conditions to avoid Avoid temperatures exceeding the flash point.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Species	Test results
Bel-Ray MC-1 Racing Full Synthetic 2T Engine Oil (Mixture)		
Acute		
Dermal		
LD50	Rabbit	29573.6035 g/kg, estimated
		18316.0625 ml/kg, estimated
Oral		
LD50	Rat	80743.2969 mg/kg, estimated
		44559.5859 ml/kg, estimated
		2498.4841 g/kg, estimated
Other		
LD50	Rat	23170.7324 mg/kg, estimated

Components	Species	Test results
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)		
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Oral		
LD50	Rat	> 16000 mg/kg

* Estimates for product may be based on additional component data not shown.

Routes of exposure Inhalation. Ingestion.

Chronic toxicity Prolonged inhalation may be harmful.

Carcinogenicity Suspect cancer hazard.

IARC Monographs. Overall Evaluation of Carcinogenicity

PETROLEUM SOLVENTS (CAS 8052-41-3) 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity Due to lack of data the classification is not possible.

Reproductivity Due to lack of data the classification is not possible.

Epidemiology No epidemiological data is available for this product.

Local effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Contact with eyes may cause irritation. May cause skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product		Species	Test results
Bel-Ray MC-1 Racing Full Synthetic 2T Engine Oil (Mixture)			
Crustacea	EC50	Daphnia	506.0249 mg/l, 48 hours, estimated
Fish	LC50	Fish	2137.0083 mg/l, 96 hours, estimated

* Estimates for product may be based on additional component data not shown.

Ecotoxicity Expected to be harmful to aquatic organisms.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Stoddard solvent 3.16 - 7.15

Environmental effects Harmful to aquatic organisms.

Aquatic toxicity May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal instructions This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Hazchem Code None

15. REGULATORY INFORMATION

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia HVIC: Listed substance

1,2,4-Trimethyl benzene (CAS 95-63-6)	Listed.
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5)	Listed.
Kerosine (petroleum) (CAS 8008-20-6)	Listed.
Xylene (all Isomers) (CAS 1330-20-7)	Listed.

Australia Medicines & Poisons Schedule 4: Use/Concentration (%)/Exceptions

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	for therapeutic use

Australia Medicines & Poisons Schedule 5: Use/Concentration/Exceptions

1,2,4-Trimethyl benzene (CAS 95-63-6)	Exception may apply, see the regulation for relevance.
Kerosine (petroleum) (CAS 8008-20-6)	Exception may apply, see the regulation for relevance.
Stoddard solvent (CAS 8052-41-3)	Exception may apply, see the regulation for relevance.
Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6: Use/Concentration/Exceptions

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	applies to all preparations in any concentration Exception may apply, see the regulation for relevance.
Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Disclaimer Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Issue date 18-June-2010

Revision date 08-July-2014

This data sheet contains changes from the previous version in section(s):	This document has undergone significant changes and should be reviewed in its entirety.